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CLAIMS

1. A constant voltage power supply circuit
having an input terminal, an output terminal, a
5 constant voltage power supply unit that generates a
constant voltage with a ripple voltage, and a ripple
removing circuit unit for removing the ripple
voltage so that a constant voltage without the
ripple voltage is output at the output terminal,
10 the ripple removing circuit unit
comprising :
a resistor connected between the constant
voltage power supply unit and the output terminal;
a ripple voltage detection circuit unit
15 for detecting the ripple voltage and outputting a
signal depending on the detected ripple voltage; and
a current circuit unit for receiving a
signal from the ripple voltage detection circuit
unit and supplying a current to the output terminal
20 or absorbing a current from the resistor in response
to the received signal, so as to cancel the ripple
voltage at the output terminal.

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2 . The constant voltage power supply
circuit as claimed in claim 1, wherein

the current circuit unit supplies a
current when the received signal indicates that the
5 ripple voltage is negative, and absorbs a current
when the received signal indicates that the ripple
voltage is positive.

3 . The constant voltage power supply
10 circuit as claimed in claim 1, wherein

the current circuit unit comprises a
current supplying circuit unit and a current
absorbing circuit unit.

15 4 . The constant voltage power supply
circuit as claimed in claim 3, wherein

the current supplying circuit unit varies
the supplied current depending on the received
signal, and the current absorbing circuit unit
20 varies the absorbed current depending on the
received signal.

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5. The constant voltage power supply-
circuit as claimed in claim 1, wherein

the product of a resistance value of the
resistor and the supplied or absorbed current is
5 equal to the ripple voltage.

6. The constant voltage power supply-
circuit as claimed in claim 1, wherein

the ripple removing circuit unit further
10 comprises a capacitor connected between the output
terminal and an output of the current circuit unit.

7. The constant voltage power supply-
circuit as claimed in claim 1, wherein

15 the ripple voltage detection circuit unit
receives the voltage from the constant voltage power
supply unit, compares the received voltage with a
reference voltage, and outputs the signal in
accordance with the comparison.

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8. The constant voltage power supply
circuit as claimed in claim 1, wherein

the constant voltage power supply unit and
the ripple removing circuit unit are integrated into
25 one IC.